

**INSTITUTE OF TRANSPORTATION ENGINEERS
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Trip Generation Handbook, Third Edition, September 2017

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The following six tables summarized in Revised Table E.1 below have been updated (E.15, E.16, E.35, E.36) or added (E.39, E.40) to reflect changes in land use descriptions published in the *Trip Generation Manual, 10th Edition* published in September 2017. Tables E.37 and E.38 have been removed, as there is no longer pass-by data for land use code 945. Figures E.11, E.12, E.13, E.18, and E.19 should also be removed from the *Trip Generation Handbook, Third Edition*, as these figures are no longer current.

Revised Table E.1 Land Uses and Time Periods with Pass-By Data

Land Use Code and Title	Time Period	Revised Table	Figure
853 Convenience Market with Gasoline Pumps	Weekday, AM Peak Period	E.15	—
	Weekday, PM Peak Period	E.16	—
944 Gasoline/Service Station	Weekday, AM Peak Period	E.35	—
	Weekday, PM Peak Period	E.36	—
960 Super Convenience Market/Gas Station	Weekday, AM Peak Period	E.39	—
	Weekday, PM Peak Period	E.40	—

**Table E.15
Pass-By and Non-Pass-By Trips
Weekday, AM Peak Period**

Land Use 853 — Convenience Market with Gasoline Pumps

SIZE (1,000 SQ. FT. GFA)	VEHICLE FUELING POSITIONS	LOCATION	WEEKDAY SURVEY DATE	NO. OF INTERVIEWS	TIME PERIOD	PASS-BY TRIP (%)	NON-PASS-BY TRIPS (%)			ADJ. STREET PEAK HOUR VOLUME	SOURCE
							PRIMARY	DIVERTED	TOTAL		
2.3	6	Gaithersburg, MD	1992	37	7:00–9:00 a.m.	32	41	27	68	2,080	RBA
2.1	6	Bethesda, MD	1992	26	7:00–9:00 a.m.	58	23	19	42	2,080	RBA
2.0	8	Gaithersburg, MD	1992	46	7:00–9:00 a.m.	87	13	0	13	2,235	RBA
2.2	8	Silver Spring, MD	1992	35	7:00–9:00 a.m.	78	9	13	22	7,080	RBA
2.8	—	Louisville area, KY	1993	—	7:00–9:00 a.m.	54	11	35	46	1,240	BAA
2.4	—	Louisville area, KY	1993	—	7:00–9:00 a.m.	48	17	35	52	1,210	BAA
4.2	—	Louisville area, KY	1993	47	7:00–9:00 a.m.	62	19	19	38	1,705	BAA
2.6	—	Crestwood, KY	1993	—	7:00–9:00 a.m.	72	15	13	28	940	BAA
3.7	—	Louisville area, KY	1993	49	7:00–9:00 a.m.	66	16	18	34	990	BAA
3.0	—	New Albany, IN	1993	62	7:00–9:00 a.m.	74	10	16	26	790	BAA
2.3	—	Louisville, KY	1993	58	7:00–9:00 a.m.	64	5	31	36	1,255	BAA
2.2	—	New Albany, IN	1993	79	7:00–9:00 a.m.	56	6	38	44	635	BAA
3.6	—	Louisville area, KY	1993	49	7:00–9:00 a.m.	67	4	29	33	1,985	BAA

Average Pass-By Trip Percentage: 63
 “—” means no data were provided

**Table E.16
Pass-By and Non-Pass-By Trips
Weekday, PM Peak Period**

Land Use 853 — Convenience Market with Gasoline Pumps

SIZE (1,000 SQ. FT. GFA)	VEHICLE FUELING POSITIONS	LOCATION	WEEKDAY SURVEY DATE	NO. OF INTERVIEWS	TIME PERIOD	PASS-BY TRIP (%)	NON-PASS-BY TRIPS (%)			ADJ. STREET PEAK HOUR VOLUME	SOURCE
							PRIMARY	DIVERTED	TOTAL		
2.1	8	Kensington, MD	1992	35	4:00–6:00 p.m.	54	3	43	46	7,080	RBA
2.3	6	Gaithersburg, MD	1992	55	4:00–6:00 p.m.	40	11	49	60	2,760	RBA
2.1	6	Bethesda, MD	1992	30	4:00–6:00 p.m.	53	20	27	47	1,060	RBA
2.0	8	Gaithersburg, MD	1992	47	4:00–6:00 p.m.	62	23	15	38	2,635	RBA
2.8	—	Louisville area, KY	1993	—	4:00-6:00 p.m.	62	11	27	38	2,875	Barton-Aschman Assoc.
2.4	—	Louisville area, KY	1993	—	4:00–6:00 p.m.	58	13	29	42	2,655	Barton-Aschman Assoc.
4.2	—	Louisville area, KY	1993	61	4:00–6:00 p.m.	58	26	16	42	2,300	Barton-Aschman Assoc.
2.6	—	Crestwood, KY	1993	68	4:00–6:00 p.m.	67	15	18	33	950	Barton-Aschman Assoc.
3.7	—	Louisville area, KY	1993	70	4:00–6:00 p.m.	61	16	23	39	2,175	Barton-Aschman Assoc.
3.0	—	New Albany, IN	1993	80	4:00–6:00 p.m.	65	15	20	35	1,165	Barton-Aschman Assoc.
2.3	—	Louisville, KY	1993	67	4:00–6:00 p.m.	57	16	27	43	1,954	Barton-Aschman Assoc.
2.2	—	New Albany, IN	1993	115	4:00–6:00 p.m.	48	16	36	52	820	Barton-Aschman Assoc.
3.6	—	Louisville area, KY	1993	60	4:00–6:00 p.m.	56	17	27	44	2,505	Barton-Aschman Assoc.
2.6	—	Seminole Co., FL	July 1989	82	4:00–6:00 p.m.	73	20	7	27	—	Tipton Associates Inc.
2.6	—	Seminole Co., FL	July 1989	98	4:00–6:00 p.m.	81	15	4	19	—	Tipton Associates Inc.
2.6	—	Seminole Co., FL	July 1989	115	4:00–6:00 p.m.	69	16	15	31	—	Tipton Associates Inc.
2.6	—	Volusia Co., FL	July 1989	98	4:00–6:00 p.m.	74	15	11	26	—	Tipton Associates Inc.
2.4	—	Volusia Co., FL	July 1989	38	4:00–6:00 p.m.	74	24	2	26	—	Tipton Associates Inc.
2.7	—	Volusia Co., FL	July 1989	82	4:00-6:00 p.m.	87	8	5	13	---	Tipton Associates Inc.

Average Pass-By Trip Percentage: 63
 “—” means no data were provided

Table E.35
Pass-By and Non-Pass-By Trips
Weekday, AM Peak Period

Land Use 944 — Gasoline/Service Station

SIZE (1,000 SQ. FT. GFA)	VEHICLE FUELING POSITIONS	LOCATION	WEEKDAY SURVEY DATE	NO. OF INTERVIEWS	TIME PERIOD	PASS-BY TRIP (%)	NON-PASS-BY TRIPS (%)			ADJ. STREET PEAK HOUR VOLUME	SOURCE
							PRIMARY	DIVERTED	TOTAL		
1.7	6	Wheaton, MD	1992	21	7:00–9:00 a.m.	67	14	19	33	900	RBA
1.2	6	Damascus, MD	1992	21	7:00–9:00 a.m.	43	28	29	57	870	RBA
0.3	12	Wheaton, MD	1992	36	7:00–9:00 a.m.	61	8	31	39	3,480	RBA
0.8	8	Louisville area, KY	1993	61	7:00–9:00 a.m.	60	15	25	40	4,000	BAA
0.6	8	Louisville, KY	1993	48	7:00–9:00 a.m.	68	13	19	32	1,307	BAA
0.7	10	Louisville, KY	1993	47	7:00–9:00 a.m.	67	11	22	33	1,105	BAA
0.7	8	Louisville area, KY	1993	—	7:00–9:00 a.m.	56	22	22	44	1,211	BAA
0.7	10	Louisville area, KY	1993	—	7:00–9:00 a.m.	46	42	12	54	1,211	BAA
0.3	—	Louisville area, KY	1993	75	7:00–9:00 a.m.	72	15	13	28	—	BAA
0.8	8	Silver Spring, MD	1992	36	7:00–9:00 a.m.	47	14	39	53	3,095	RBA
0.4	8	Derwood, MD	1992	46	7:00–9:00 a.m.	75	0	25	25	3,770	RBA
1.0	8	Silver Spring, MD	1992	35	7:00–9:00 a.m.	78	9	13	22	7,080	RBA

Average Pass-By Trip Percentage: 62

“—” means no data were provided

**Table E.36
Pass-By and Non-Pass-By Trips
Weekday, PM Peak Period**

Land Use 944 — Gasoline/Service Station

SIZE (1,000 SQ. FT. GFA)	VEHICLE FUELING POSITIONS	LOCATION	WEEKDAY SURVEY DATE	NO. OF INTERVIEWS	TIME PERIOD	PASS-BY TRIP (%)	NON-PASS-BY TRIPS (%)			ADJ. STREET PEAK HOUR VOLUME	SOURCE
							PRIMARY	DIVERTED	TOTAL		
1.7	6	Wheaton, MD	1992	18	4:00–6:00 p.m.	61	6	33	39	2,510	RBA
1.2	6	Damascus, MD	1992	26	4:00–6:00 p.m.	58	11	31	42	1,020	RBA
0.3	12	Wheaton, MD	1992	52	4:00–6:00 p.m.	38	10	52	62	3,835	RBA
0.8	8	Silver Spring, MD	1992	36	4:00–6:00 p.m.	67	14	19	33	3,095	RBA
0.4	8	Derwood, MD	1992	46	4:00–6:00 p.m.	46	11	43	54	3,770	RBA
1.0	8	Silver Spring, MD	1992	35	4:00–6:00 p.m.	54	3	43	46	7,080	RBA
0.8	8	Louisville area, KY	1993	83	4:00–6:00 p.m.	52	8	40	48	4,965	Barton-Aschman Assoc.
0.6	8	Louisville, KY	1993	60	4:00–6:00 p.m.	53	20	27	47	1,491	Barton-Aschman Assoc.
0.7	10	Louisville, KY	1993	—	4:00–6:00 p.m.	57	19	24	43	1,812	Barton-Aschman Assoc.
0.7	8	Louisville area, KY	1993	—	4:00–6:00 p.m.	72	7	21	28	2,657	Barton-Aschman Assoc.
0.7	10	Louisville area, KY	1993	—	4:00–6:00 p.m.	55	16	29	45	2,657	Barton-Aschman Assoc.

Average Pass-By Trip Percentage: 56
 “—” means no data were provided

**Table E.39
Pass-By and Non-Pass-By Trips
Weekday, AM Peak Period**

Land Use 960 — Super Convenience Market/Gas Station

SIZE (1,000 SQ. FT. GFA)	VEHICLE FUELING POSITIONS	LOCATION	WEEKDAY SURVEY DATE	NO. OF INTERVIEWS	TIME PERIOD	PASS-BY TRIP (%)	NON-PASS-BY TRIPS (%)			ADJ. STREET PEAK HOUR VOLUME	SOURCE
							PRIMARY	DIVERTED	TOTAL		
5.500	12	East Lampeter, PA	2000	—	7:00-10:00 a.m.	85	—	—	15	2,975	Traffic Planning & Design
5.060	12	Ephrata, PA	2000	—	7:00-10:00 a.m.	84	—	—	16	3,219	Traffic Planning & Design
5.543	16	East Vincent, PA	2000	—	7:00-10:00 a.m.	84	—	—	16	1,933	Traffic Planning & Design
5.565	16	Upper Macungie, PA	2000	—	7:00-10:00 a.m.	77	—	—	23	2,262	Traffic Planning & Design
5.500	16	West Sadsbury, PA	2000	—	7:00-10:00 a.m.	82	—	—	18	1,570	Traffic Planning & Design
4.993	16	Muhlenberg, PA	2000	—	7:00-10:00 a.m.	75	—	—	25	1,991	Traffic Planning & Design
5.488	12	Millsboro, DE	2000	—	7:00-10:00 a.m.	80	—	—	20	—	Traffic Planning & Design
5.565	16	Bristol, PA	2000	—	7:00-10:00 a.m.	68	—	—	32	2,854	Traffic Planning & Design
4.694	12	Bel Air, MD	2000	—	7:00-10:00 a.m.	72	—	—	28	2,440	Traffic Planning & Design
4.694	16	Frederick, MD	2000	—	7:00-10:00 a.m.	90	—	—	10	2,278	Traffic Planning & Design
4.694	12	Salisbury, MD	2000	—	7:00-10:00 a.m.	78	—	—	22	1,561	Traffic Planning & Design
4.694	12	Salisbury, MD	2000	—	7:00-10:00 a.m.	79	—	—	21	2,764	Traffic Planning & Design
4.848	12	Fredericksburg, VA	2000	—	7:00-10:00 a.m.	55	—	—	45	1,398	Traffic Planning & Design
4.848	16	Woodbridge, VA	2000	—	7:00-10:00 a.m.	68	—	—	32	2,106	Traffic Planning & Design
5.242	12	Woodbridge, VA	2000	—	7:00-10:00 a.m.	74	—	—	26	1,160	Traffic Planning & Design
4.848	16	Spotsylvania, VA	2000	—	7:00-10:00 a.m.	85	—	—	15	2,676	Traffic Planning & Design
4.848	16	Spotsylvania, VA	2000	—	7:00-10:00 a.m.	75	—	—	25	3,244	Traffic Planning & Design
4.848	16	Stafford, VA	2000	—	7:00-10:00 a.m.	71	—	—	29	1,663	Traffic Planning & Design
5.242	12	Fredericksburg, VA	2000	—	7:00-10:00 a.m.	71	—	—	29	548	Traffic Planning & Design
4.694	20	New Castle, DE	2000	—	7:00-10:00 a.m.	84	—	—	16	3,864	Traffic Planning & Design
4.694	16	New Castle, DE	2000	—	7:00-10:00 a.m.	74	—	—	26	2,185	Traffic Planning & Design

4.694	16	Middletown, DE	2000	—	7:00-10:00 a.m.	58	—	—	42	962	Traffic Planning & Design
4.694	16	Newark, DE	2000	—	7:00-10:00 a.m.	84	—	—	16	2,956	Traffic Planning & Design
5.094	16	Lanoka, NJ	2000	—	7:00-10:00 a.m.	86	—	—	14	1,260	Traffic Planning & Design
5.565	16	Cream Ridge, NJ	2000	—	7:00-10:00 a.m.	58	—	—	42	1,253	Traffic Planning & Design
5.565	16	Medford, NJ	2000	—	7:00-10:00 a.m.	79	—	—	21	1,928	Traffic Planning & Design
4.694	16	Egg Harbor, NJ	2000	—	7:00-10:00 a.m.	79	—	—	21	1,859	Traffic Planning & Design
5.565	16	Florence, NJ	2000	---	7:00-10:00 a.m.	84	---	---	16	1,953	Traffic Planning & Design

Average Pass-By Trip Percentage: 76

“—” means no data

Table E.40
Pass-By and Non-Pass-By Trips
Weekday, PM Peak Period

Land Use 960 — Super Convenience Market/Gas Station

SIZE (1,000 SQ. FT. GFA)	VEHICLE FUELING POSITIONS	LOCATION	WEEKDAY SURVEY DATE	NO. OF INTERVIEWS	TIME PERIOD	PASS-BY TRIP (%)	NON-PASS-BY TRIPS (%)			ADJ. STREET PEAK HOUR VOLUME	SOURCE
							PRIMARY	DIVERTED	TOTAL		
5.500	12	East Lampeter, PA	2000	—	3:00–6:00 p.m.	84	—	—	16	4,025	Traffic Planning & Design
5.060	12	Ephrata, PA	2000	—	3:00–6:00 p.m.	91	—	—	9	4,181	Traffic Planning & Design
5.543	16	East Vincent, PA	2000	—	3:00–6:00 p.m.	87	—	—	13	2,363	Traffic Planning & Design
5.565	16	Upper Macungie, PA	2000	—	3:00–6:00 p.m.	81	—	—	19	2,770	Traffic Planning & Design
5.500	16	West Sadsbury, PA	2000	—	3:00–6:00 p.m.	90	—	—	10	2,616	Traffic Planning & Design
4.993	16	Muhlenberg, PA	2000	—	3:00–6:00 p.m.	72	—	—	28	2,917	Traffic Planning & Design
5.488	12	Millsboro, DE	2000	—	3:00–6:00 p.m.	73	—	—	27	—	Traffic Planning & Design
5.565	16	Bristol, PA	2000	—	3:00–6:00 p.m.	76	—	—	24	3,362	Traffic Planning & Design
4.694	12	Bel Air, MD	2000	—	3:00–6:00 p.m.	78	—	—	22	3,549	Traffic Planning & Design
4.694	16	Frederick, MD	2000	—	3:00–6:00 p.m.	89	—	—	11	2,755	Traffic Planning & Design
4.694	12	Salisbury, MD	2000	—	3:00–6:00 p.m.	67	—	—	33	2,272	Traffic Planning & Design
4.694	12	Salisbury, MD	2000	—	3:00–6:00 p.m.	66	—	—	34	3,514	Traffic Planning & Design
4.848	12	Fredericksburg, VA	2000	—	3:00–6:00 p.m.	71	—	—	29	2,350	Traffic Planning & Design
4.848	16	Woodbridge, VA	2000	—	3:00–6:00 p.m.	67	—	—	33	2,954	Traffic Planning & Design
5.242	12	Woodbridge, VA	2000	—	3:00–6:00 p.m.	70	—	—	30	2,445	Traffic Planning & Design
4.848	16	Spotsylvania, VA	2000	—	3:00–6:00 p.m.	78	—	—	22	3,086	Traffic Planning & Design
4.848	16	Spotsylvania, VA	2000	—	3:00–6:00 p.m.	83	—	—	17	4,143	Traffic Planning & Design
4.848	16	Stafford, VA	2000	—	3:00–6:00 p.m.	73	—	—	27	2,534	Traffic Planning & Design
5.242	12	Fredericksburg, VA	2000	—	3:00–6:00 p.m.	56	—	—	44	950	Traffic Planning & Design
4.694	20	New Castle, DE	2000	—	3:00–6:00 p.m.	76	—	—	24	1,616	Traffic Planning & Design
4.694	16	New Castle, DE	2000	—	3:00–6:00 p.m.	73	—	—	27	1,858	Traffic Planning & Design

4.694	16	Middletown, DE	2000	—	3:00–6:00 p.m.	59	—	—	41	1,344	Traffic Planning & Design
4.694	16	Newark, DE	2000	—	3:00–6:00 p.m.	72	—	—	28	3,434	Traffic Planning & Design
5.094	16	Lanoka, NJ	2000	—	3:00–6:00 p.m.	86	—	—	14	1,730	Traffic Planning & Design
5.565	16	Cream Ridge, NJ	2000	—	3:00–6:00 p.m.	61	—	—	39	1,713	Traffic Planning & Design
5.565	16	Medford, NJ	2000	—	3:00–6:00 p.m.	86	—	—	14	1,721	Traffic Planning & Design
4.694	16	Egg Harbor, NJ	2000	—	3:00–6:00 p.m.	81	—	—	19	1,734	Traffic Planning & Design
5.565	16	Florence, NJ	2000	---	3:00–6:00 p.m.	81	---	---	19	2,227	Traffic Planning & Design

Average Pass-By Trip Percentage: 76

“—” means no data were provided